PLAKEDA, 1. 1. USSR/Chemistry - Metallurgy

FD-3237

Card 1/1

Pub. 41-18/22

Author

: Bessonov, S. V., Plaksin, I. I., and Tyurnikova, V. I., Moscow

Title

: On the Influence of Oxygen on the Floatability of Chalcopyrite

in the Presence of Oleic Acid

Periodical

: Izv. AN SSSR, Otd. Tekh. Nauk 7, 137-138, Jul 55

Abstract

Describes flotation (with argon) of chalcopyrite pulverized under agron and mixed 2:3 with quartz with 4:1 ratio of liquid: solids. Water used contained 0.16 and 36.0 milligrams of oxygen per liter (20°C); medium was neutral (pH=7.0, water) and alkaline (pH=9.0, addition of NaOH); reagents used were oleic acid and pine oil (5 grams per ton). Results given on graph and in table show definite influence of oxygen as activator.

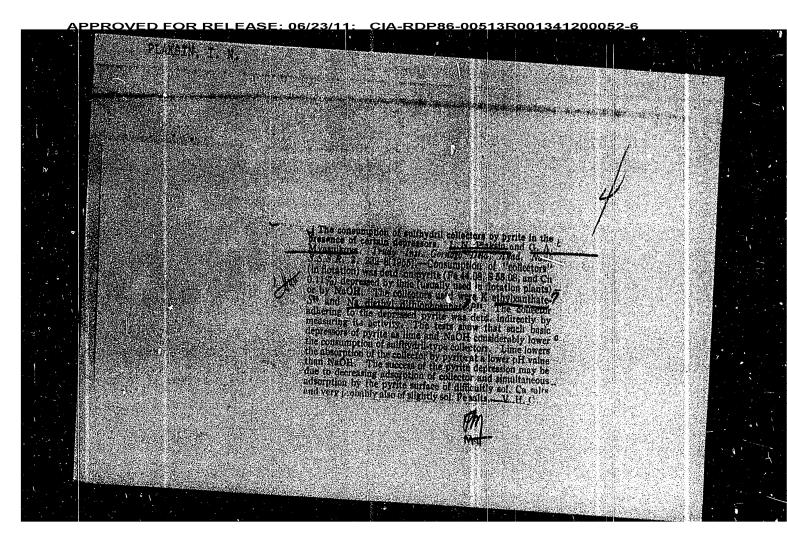
Four references, all USSR.

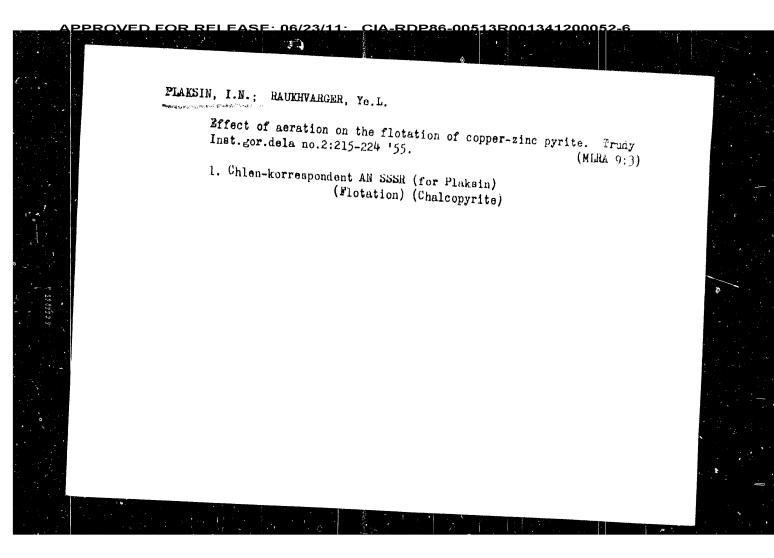
Institution

: Institute of Mining, Acad Sci USSR

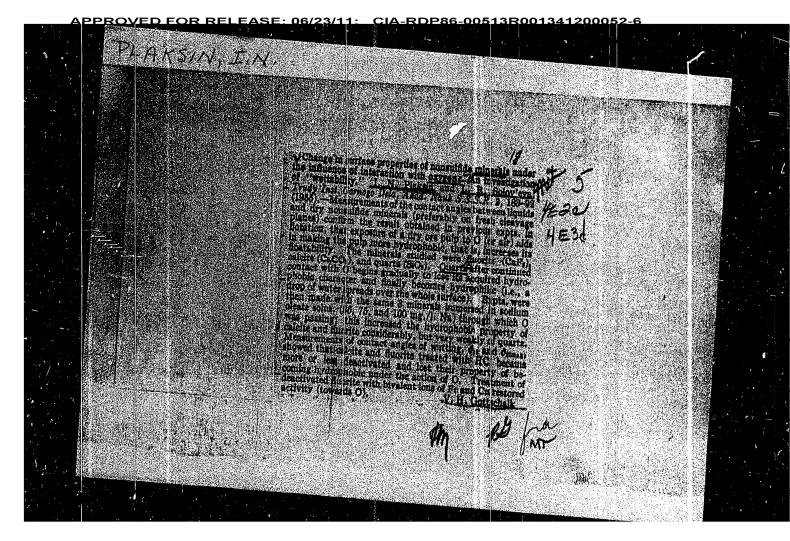
Submitted

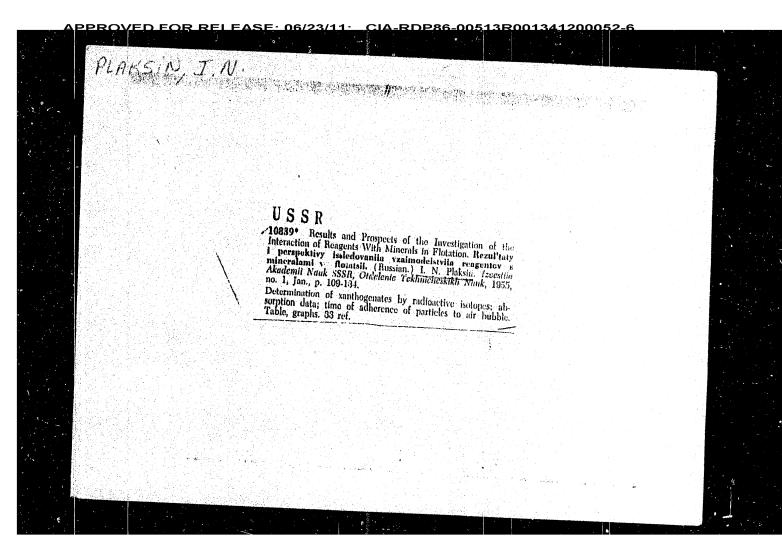
: 14 April 1955

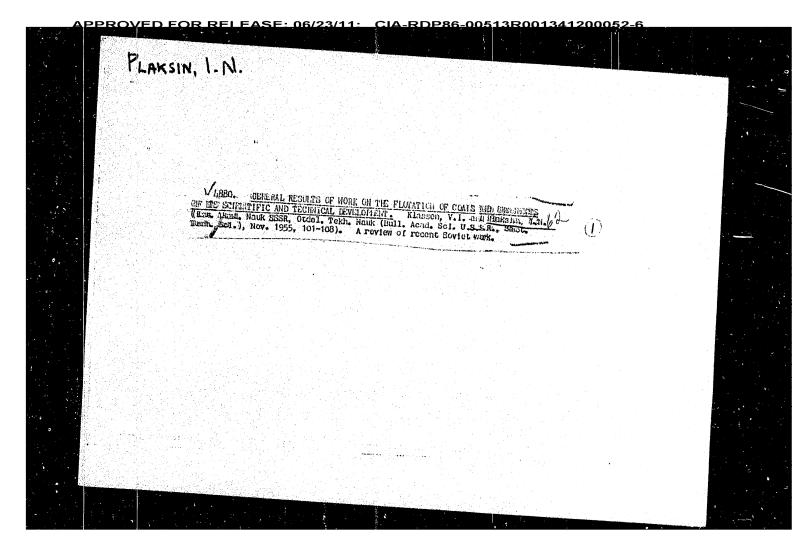




PPROVED FOR RELEASE: PLAKSIN, I.N.; BESSONOV, S.V.; SOLOV'YEV, L.R. Study of modifications in flotation properties of the surface of sulfides under the effect of gases and reagents. Trudy Inst.gor. dela no.2:193-205 '55. 1. Chlen-korrespondent AN SSSR (for Plaksin) (MLRA 9:3) (Flotation) (Sulfides)







USSR/ Scientists - Metallurgy

Cand 1/1

Pub. 124 - 14/40

Authors

Plaksin, I. N., Memb. Corresp., Acad. of Sc., USSR; Petrov. D. A.;

Title

Succeptatov, A. P.; and Syskov, K. I., Dr. of Techn. Sc. 8 Mining and metallurgy in the German Democratic Republic

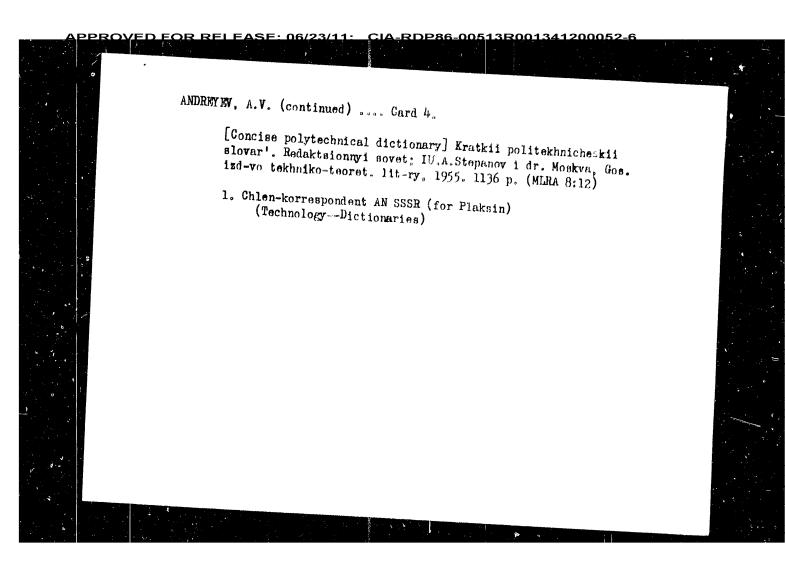
Periodical : Vest. AN SSSR 1, 69-71, Jan 1955

Abstract

Briefs are presented of the special scientific meeting called by the Freiberg Mining Academy for Sept. 29 - Oct. 2, 1954. The meeting was devoted to the 50-th anniversary of the death of the famous German chemist and metallurgist, Klemens Winkler (1838-1904). A progress report of the Bergakademie (Mining Academy) for 1954 was presented. Names of personalities attending the meeting are listed

Institution

Submitted



ANDREYRY, A.V., (continued) Card 3.

TRET'YAKOV, A.P., retsenzent, redaktor; FAYERMAN, Ye,M., retsenzent, redaktor; KHACHATTROY, T.S., retsenzent, redaktor; CHERNOV, H.V., retsenzent, redaktor; SHERGIN, A.P., retsenzent, redaktor; SHESTO-SHORAPON, N.M., retsenzent, redaktor; SHESIMO, Ye.P., retsenzent, redaktor; SHORAPON, N.M., retsenzent, redaktor; YAKOBSON, M.O., retsenzent, redaktor; Professor, redaktor; DRMYROK, F.S., professor, redaktor; ZNAMERKIN, A.A., inzhenc, redaktor; PLAKSIN, I.N., redaktor; RUTUVSKIY, B.N. [deceaned] doktor khimicheskikh nauk, professor, redaktor; SHERGAL TER, L. Ya, kandidat tekhnicheskikh nauk, redaktor, redaktor; BRESTINA, B.S., redaktor; ZNAMENSKIY, A.A., redaktor; Continued on next card)

ANDREYEV, A.B. (continued) Card 2.

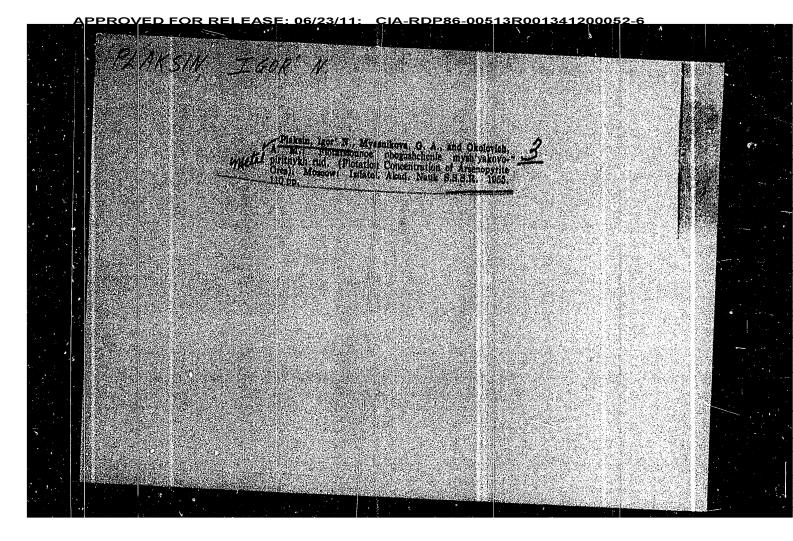
YAKOVLEV, A.V.; ANDREYEV, Ye.S., retsensent, redaktor; BERKEN-GETM, B.M., retsenzent, redaktor; BERMAN, L.D., retsenzent, redaktor; BOLTINSKIY, V.N., retsenzent, redaktor; BONCH-BRUYEVICH, V.L., retsenzent, redaktor; VELLER, M.A., retsenzent, redaktor; VINOGRADOV, A.V., retsenzent, redaktor; GUDTSOV, N.T., retsenzent, redaktor; DEGTYAREV, I.L., retsenzent, redaktor; DEM*YANYUK, F.S., retsenzent; redaktor; DOBROSMYSLOV, I.N., retsenzent, redaktor; YELANCHIK. G.M. retsenzent, redaktor; ZHEMOCHKIN, D.N., retsenzent, redaktor; $SHURAVCHENKO_{\mathfrak{p}}, A_{\mathfrak{p}}N_{\mathfrak{p},\mathfrak{p}} \text{ retsenzent}_{\mathfrak{p}}, \text{ redaktor}_{\mathfrak{p}} \text{ ZLODEYEV}_{\mathfrak{p}}, G_{\mathfrak{p}}A_{\mathfrak{p},\mathfrak{p}} \text{ retsenzent}_{\mathfrak{p}}$ redaktor; KAPLUNOV, R.F., retsenzent, redaktor; KUSAKOV, M.M., retsenzent, redaktor; LEVINSON, L.Ye., [deceased] retsenzent, redaktor; MALOV, N.N., retsenzent, redaktor; MARKUS, V.A. retsenzent, redaktor; METELITSYN, I.I., retsenzent, redaktor; MIKHAYLOV, S.M., retsenzent; redaktor; OLIVETSKIY, B.A., retsenzent, redaktor; PAVLOV, B.A., retsenzent, redaktor; PANYUKOV, N.P., retsenzent, redaktor; PLAKSIN, I.N. retsenzent, redaktor; RAKOV, K.A. retsenzent, redaktor; RZHAVINSKIY, V.V., retsenzent, redaktor; RINBERG, A.M., retsenzent; redaktor; ROGOVIN, N. Ye., retsenzent, redaktor; RUDENKO, K.G., retsenzent, redaktor; RUTOVSKIY, B.N., [deceased] retsenzent, redaktor; RYZHOV, P.A., retsenzent, redaktor; SANDOMIRSKIY, V.B., retsenzent, redaktor; SKRAMTAYEV, B.G., retsenzent, redaktor; SOKOV, V.S., retsenzent, redaktor; SOKOLOV, N.S., retsenzent, redaktor; SPIVAKOVSKIY, A.O., retsenzent, redaktor; STRAMENTOV, A.Ye., retsenzent, redaktor; STRELETSKIY, N.S., retsenzent, redaktor; (Continued or next card)

NAKSAV AM ANDREYEV, A.B.; ANTONOV, A.I.; ARAPOV, P.P., BARMASH, A.I., BEDNYAKOVA, A.B.; BENIN, G.S.; BERESNEVICH, V.V.; BERNSHTEYN, S.A.; BITYUTSKOV, V.I.; BLYUMENBERG, V.V.; BONCH-BRUYEVICH, M.D.; BORMOTOV, A.D.; BULGAKOV, N.I.; VEKSLER, B.A.; GAVRILENKO, I.V.; GENDLER, Ye.S., [deceased]; GERLIVANOV, N.A., [deceased]; GIBSHMAN, Ye.Ye.; GOLDOVSKIY, Ye.M.; GORBUNOV. P.P.; GORYALNOV, F.A.; CRINBERG, B.G.; GRYUNER, V.S.; DANOVSKIY, N.F.; DZEVUL'SKIY, V.M., [deceased]; DREMAYLO, P.G.; DYBETS, S.G.; D'YACHENKO, P.F.; DYURNBAUM, N.S., [deceased]; YEGORCHENKO, B.F. [deceased]; YEL YASHKEVICH, S.A.; ZHEREBOV, L.P.; ZAVEL'SKIY, A.S.; ZAVEL'SKIY, F.S.; IVANOVSKIY, S.R.; ITKIN, I.M.; KAZHDAN, A.Ya.; KAZHINSKIY, B.B.; KAPLINSKIY, S.V.: KASATKIN, F.S.; KATSAUROV, I.N.; KITAYGORODSKIY, I.I.; KOLESNIKOV, I.F.; KOLOSOV, V.A.; KOMAROV, N.S.; KOTOV, B.I.; LINDE, V.V.; LEBEDEV, H.V.; LEVITSKIY, N.I.; LOKSHIN, Ya.Yu; LUTTSAU, V.K.; MANNERBERGER, A.A.; MIKHAYLOV, V.A.; MIKHAYLOV, N.M.; MURAV'YEV, I.M.; NYDEL MAN, G. R.; PAVLYSHKOV, L.S.; POLUYANOV, V.A.; POLYAKOV, Ye.S.; POPOV, V.V.; POPOV, N.I.; RAKHLIN, I.Ye., RZHEVSKIY, V.V.; ROZENBERG, G.V.; ROZENTRETER, B.A.; ROKOTYAN, Ye.S.; RUKAVISHNIKOV, V.I.; RUTOVSKIY, B.N. [deceased]: RYVKIN, P.M.; SMIRNOV A.P.; STEPANOV, G.Yu, STEPANOV, Yu.A.; TARASOV, L.Ya.; TOKAREV, L.I.; USPASSKIY, P.P.; FEIXOROV, A.V.; FERE, N.E.; FRENKRI, N.Z.; KHEYFETS, S.Ya.; KHLOPIN, M.I.; KHODOT, V.V.; SHAMSHUR, V.I.; SHAPIRO, A.Ye.; SHATSOV, N.I.; SHISHKINA, N.N.; SHOR, E.R.; SHPICHENETSKIY, Ye.S.; SHPRINK, B.E.; SHTERLING, S.Z.; SHUTYY, L.R.; SHUKHGAL TER, L. Ya.; ERVAYS, A.V.; (Continued on next card)

PLAKSIN, Igor' Nikolayevich, redaktor; RUDENKO, Konstantin Gerasimovich; SMIRNOV, Aleksandr Nikolayevich; MROITSKIY, Aleksand Vasil'yevich; FISHMAN, Mikhail Aleksandrovich; IVAHOVSKIY, M.D., redaktor; ROMANOVA, Z.A., redaktor; KOROVENKOVA, Z.A., tekhnicheskiy redaktor.

[Technological equipment of concentration plants] Tekhnologicheskoe oborudovanie obogatitel'nykh fabrik. Moskva, Ugletekhizdat. Pt. 1. [Design and selection of equipment] Raschet i vybor oborudovaniia. 1955. 415 p. (MLRA 9:1)

1. Chlen-Kerrespondent AN SSSR (for Plaksin) (Coal preparation)



PLAKSIN, I. N.

USSR/Chemistry - Chemical technology

Carl Pub. 22 - 22/41

Authors

Plaksin, I. N., Memb. Corresp. of Acad. of Sc. USSR, and Bessonov, S. V.

Title Oxygen absorption in sulfide suspensions

Periodical Dok. AN SSSR 98/2, 251-252, Sep 11, 1954

Abstract The absorption of oxygen from neutral and alkali solutions by certain sulfide minerals was investigated. It was found that oxygen is absorbed by pyrite and galenite mainly during the first moment of contact whereas chalcopyrite absorbs the oxygen gradually. One USSR reference (1954). Graphs,

Institution : Academy of Sciences, USSR, Mining Institute

Submitted : May 28, 1954

PLAKSIN, I. N.

USSR/Minerals - Chemical technology

Card 1/1

Pub. 22 - 28/44

Authors

Plaksin, I. N. Memb. Corresp. of Acad. of Sc. USSR.; and Khazhinskaya, G. N.

Title

Reaction of reagents with zinc blende

Periodical

Dok. AN SSSR 97/6, 1045-1046, Aug 21, 1954

Abstract

The reaction of zinc blende with ethyl xanthogenate, considered one of the most effective reagents, was investigated by the method of radioactive isotopes. It was established that the clear variety of sphalerite (zinc blende) transforms smoothly into froth without any additional activation, the dark ferrous zinc blende floats imperfectly and can absolutely not be floated without previous activation. Two references: 1-USSR and 1-USA (1932-1952).

Institution

Submitted March 29, 1954

PLAKSIN, I. N.

USSR/ Minerals - Chemical technology

Card

1/1

Authors

Plaksin, I. N., Memb. Corres. of Acad. of Sc. USSR; and Bessonov, S. V.

Title

Adherence of sulfide minerals to an air bubble in the absence of reagents

Periodical

Dokl. AN SSSR, 97, Ed. 3, 495 - 498, July 21, 1954

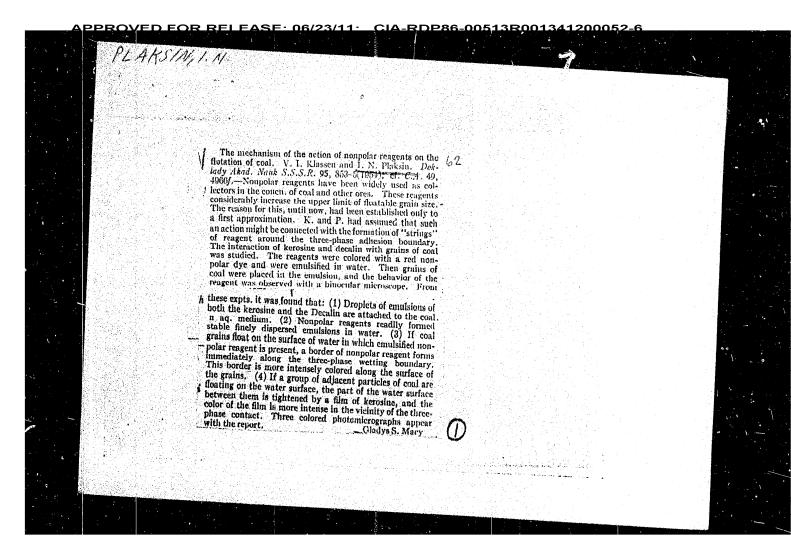
Abstract

Various minerals, each containing at least 96 - 98% of pure sulfide, were investigated to determine the period of adhesion of mineral particles to the air blisters formed on the surface of the minerals. It was found that oxygen dissolved in water acts on the surface of the mineral particles, thus promoting a sharp increase in the rate of adhesion. The changes in adhesion time, of the particles, are shown in graphs. Eight USSR and

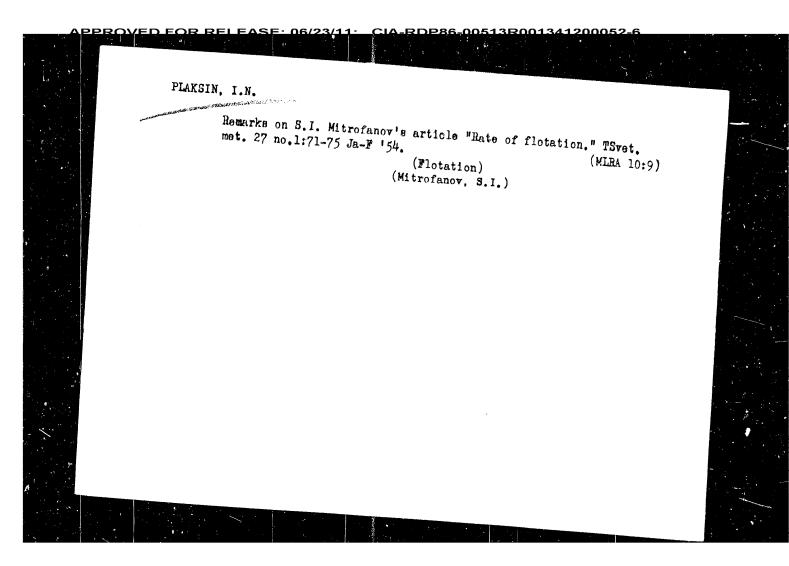
Institution : Acad. of Sc. USSR, Mining Institute

Submitted

: March 22, 1954



PLAKSIN, I.N.; VLASOVA, N.S., kandidat tekhnicheskikh nauk: KOTBASH, V.a., kandidat tekhnicheskikh neuk. Reviews of D.S.Emel'ianov's book "Some problems of the theory of coal flotation." Ugo1' 29 no.2:47-48 F '54. (MLRA 7:1) 1. Chlen-korrespondent akademii nauk SSSR (for Plaksin). (Coal preparation) (Emel'ianov, D.S.)



USSE/Scientists

Card 1/1: Pub. 124 - 14/24

Authors: Plakein, I.M., Memb. Corresp. of Acad. of Sc. USSE; and Lidin, G. D.,

Academician A. A. Skochinsky, Hero of Socialist Labor

Periodical: Vest. AN SSSE 11, 70-74, November 1954

Abstract: Editorial honoring the 80th birthday and 55th anniversary of the is presented. Illustration.

Institution:

Submitted:

USSR/Engineering - Metallurgy

FD-1503

Card 1/1

: Pub. 41-14/18

Author

Plaksin, I. N.; Khazhinskaya, G. N.; Tyurnikova, V. I.; Moscost

Title

: Investigation of certain questions of the interaction of sulfide winerals with flotation reagents

Periodical

: Tzv. AN SSSR. Otd. tekh. nauk 8, 123-132, Aug 1954

Abstract

: Uses radioactive isotopes for study of absorption of certain sulfide minerals (zinc blende, chalcopyrite, and pyrite) by collector reagents as follows: ethyl zanogenate (radioactive isotope S 35) and sodium diethyldithiophosphate (radioactive isotope P 32), in neutral and in calcium solution and also after preliminary processing of minerals with oxygen. Graphs; tables.

Eight references.

Institution

Submitted

: July 10, 195h

ROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200052-6

USSR/Engineering - Metallurgy

FD-1114

Card 1/1

Pub. 41-8/13

Author

: Plaksin, I. N. and Anfimova, Ye. A., Moscow

Title

Investigation of certain problems of the reaction of xanthogenates with the surface of sulfidic minerals of copper and zinc under flotation conditions.

Periodical

: Izv. AN SSSR, Otd, tekh. nauk 5, 95-104, May 1954

Abstract

Study the effect of combinations of xanthogenates (with different lengths of the chain of the hydrocarbon radical) on flotability of copper pyrites and zinc blende, including following problems: (1) effect of stability of a layer of xanthogenates on technological characteristics of flotation; (2) effect of density of the xanthogenate layer and degree of coverage of the surface of particles of the mineral by the reagent on the characteristics of flotation; (3) effect of joint use of two xanthogenates with different lengths of the chain of hydrocarbon radicals on quantitative characteristics indicated in (2); (4) quantitative distribution of various xanthogenates, absorbed by surface of minerals, observed during use of combinations of two xanthogenates. Graphs; tables.

Submitted

: April 27, 1954

CIA-RDP86-00513R001341200052-6 PLAKSIN, I.N. Role of Russian scientists in the development of nonferrous retallurgy and cre dressing. Trudy po ist.tekh. no.5:3-15 '54. (MIRA 8:1)

(Nonferrous metals--Metallurgy) (Ore dressing)

USSR/Mining

FD-1373

 $\operatorname{Card} 1/1$

, Pub. 41-5/18

Author

Klassen, V. I., and Platsin, I. N., Corresponding Member, Academy of

Sciences, USSR

Title

The mechanism of action of certain reagents and of pulp aeration in

coal flotation

Periodical

: Tzv. AN SSSR. Otd. tekh. nauk 3, 62-71, March 1954

Abstract

Presents results of investigation into mechanism of action of nonpolar

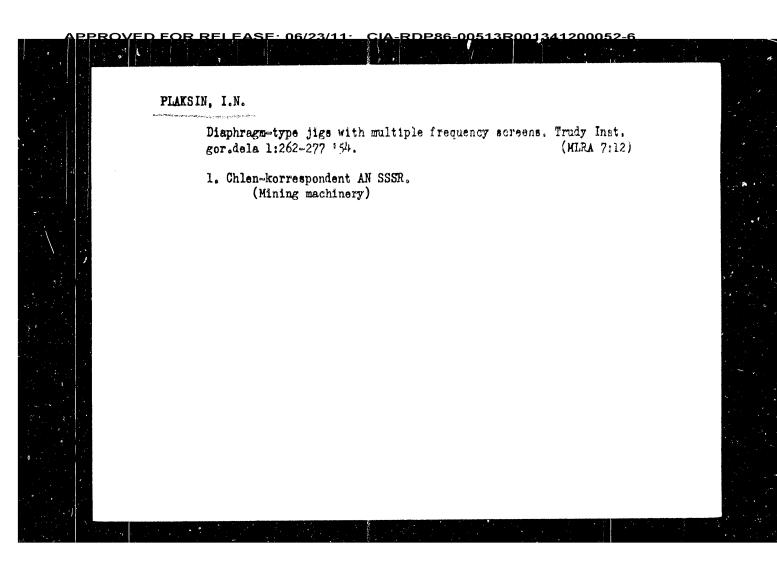
reagents, inorganic salts, and pulp seration during flotation of coal.

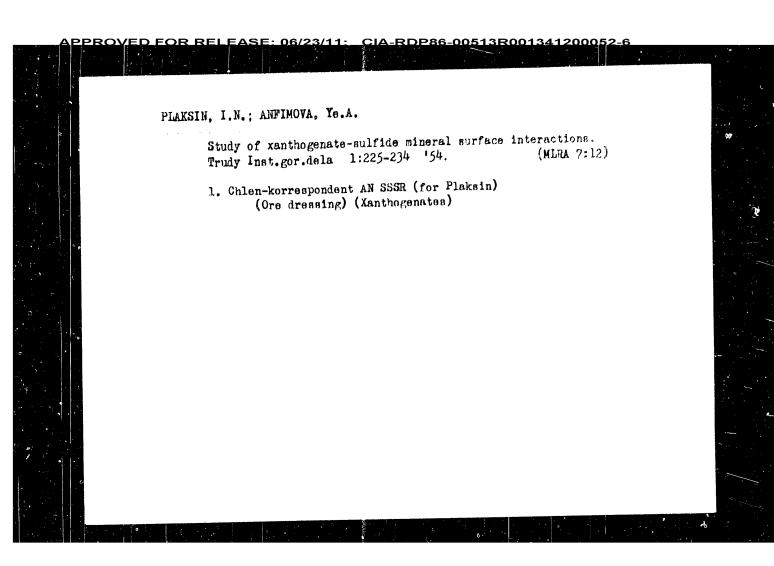
Graphs, table. Sixteen references

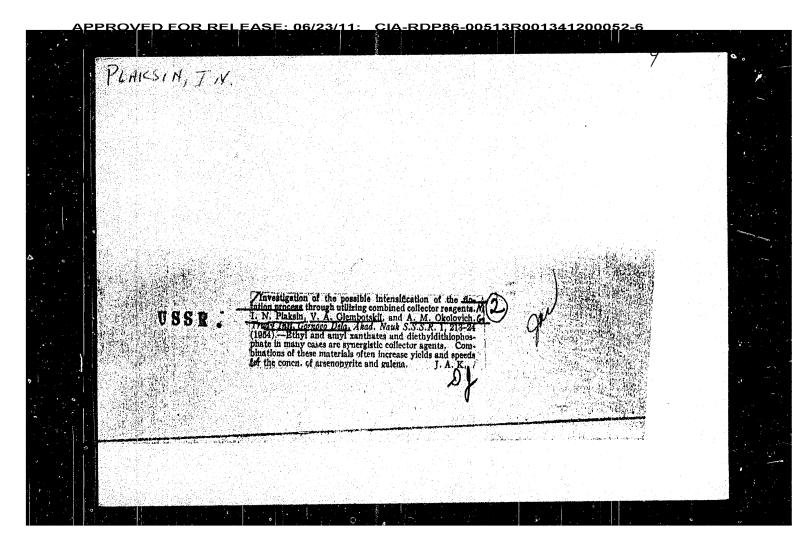
Institution :

Submitted

: March 9, 1954







PLAKSIN, I. N. USSR/Mining

FD 273

Card 1/1

Authors

: Bessonov, S. V., and Flakotn, I.f. , transsporting ... trans-

Title .

Effect of oxygen on floatability of galana and chalcopyrite

Periodical

Iz. Ak. Nauk SSSR, OTN, 1, 114-127, Jan 1954

Abstract

: Presents a new method for investigating the effect of oxygen on flotation of pure sulfide minerals and gives experimental data obtained

for galena and chalcopyrite. Table, illustrations, graphs.

Institution :

Academy of Sciences of the USSR

Submitted

December 18, 1953

PLAKS IN, I.N., redaktor; BLAGOV, I.S., inzhener, redaktor; ALADOVA,

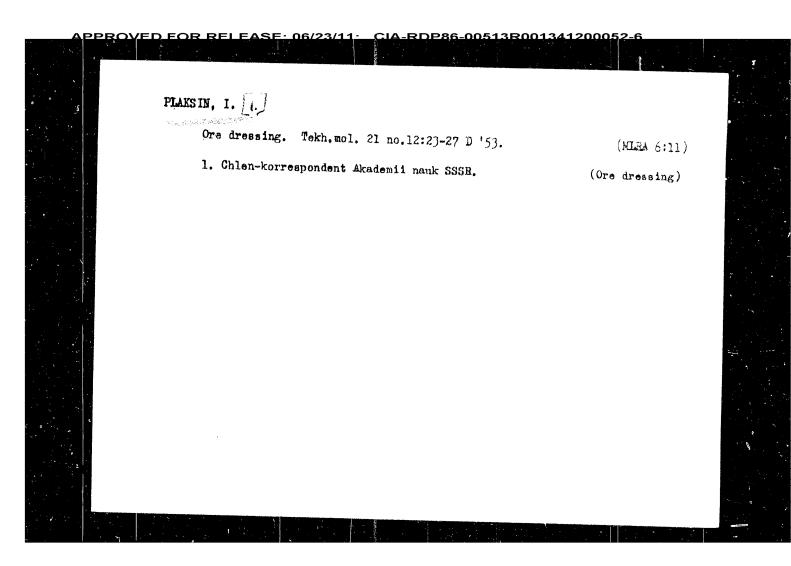
1e. I., tekhnicheskiy redaktor; KOROVENKOVA, Z.A., tekhnicheskiy redaktor.

[Flotation of coal; proceedings of a scientific and technical conference] Flotateila uglei; trudy nauchno-tekhnicheskogo soveshchaniia. Moskva, Uglet-khizda, 1954. 251 p. (Mika 8:7)

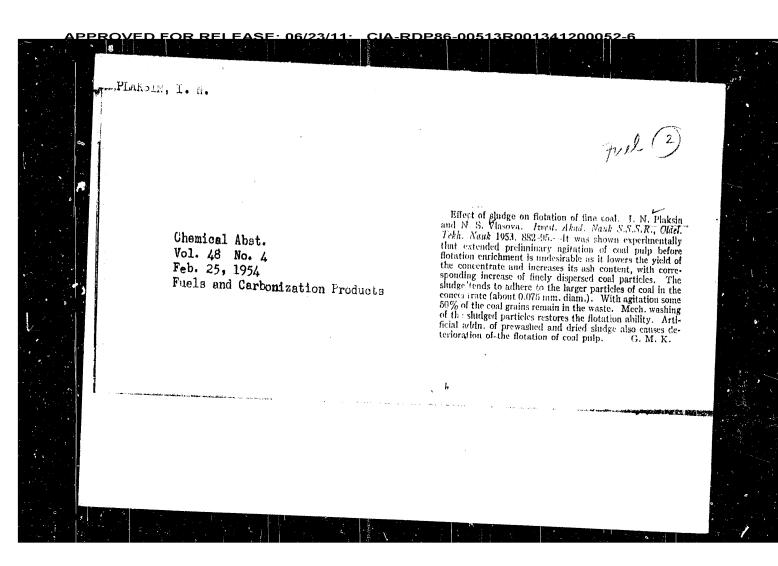
1. Chlen-korrespondent AN SSSR (for Plaks in)

(Goal preparation)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200052-6 PLAKSIN, I.N., chlen-korrespondent; CHAPLYGINA, Ye.M. Effect of gases on the density of the adsorption layer of sodium eleate during flotation of certain non-sulfide minerals. Dokl. AN SSSR 91 no.2: 301-303 Jl 153. (MLRA 6:6) 1. Institut gornogo dela Akademii nauk SSSR. 2. Akademiya nauk SSSR (for Plaksin). (Sodium oleate) (Flotation)



ZOZULYA, I.I.; PLAKSIN, I.N., chlen-korrespondent. Intensification of the flotation process of sulfide minerals. Izv. Ali SSSA (MLHA 6:8) 1. Akademiya nauk SSSR (for Plaksin). (Flotation) (Sulfides)



VERKHOVSKIY, I.M.; PLAKSIN. I.N., chlen-korrespondent. Significance of contributions to the theory of wet gravitational concentration of coal by Russian scientists. Izv. AN SSSR Otd. tekh. nauk (MLRA 6:8) 1. Akademiya nauk SSSR (for Plakein). (Coal preparation)

PLAKSIN, I.N., chlen korrespondent. Role of Russian scientists in the development of non-ferrous metallurgy and the dressing of ores. Izv. AN SSSR. Otd. tekh. nauk. no.3:450-462 Mr (MILRA 6:5) 1. Akademiya nauk SSSR. (Metallurgy--History)

KLASSEN, V.I.; MOKROUSOV, V.A.; PLAKSIN, I.N., retsenzent; TROITSKIY, A.V., gornyi direktor, retsenzent. [Introduction to the flotation theory] Vvedenie v teoriiu flotatsii. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1953. 463 p. (MLRA 7:8) 1. Chlen-korrespondent AN SSSR (for Plaksin) (Flotation)

APPRO	PIAKSIN, I. N.	3/11: CIA-RDP86-00	0513R00134120		
		promotes their depression. Effect of gase result of their phys adsorption on surface minerals. Carbonic acid, floating scap an oleate were used as collectors in expts.	Investigates behavior of phosphorite, quartz, calcite and fluorite during their flotation aft preliminary blowing with gases and concludes the adsorption of oxygen, by blowing or from the adimproves floatability of minerals, while nitrogen.	"Effect of Gases on Flotation of Non-Sulfide Minerals," I. N. Plaksin, Corr Mem, Acad Sci Te. M. Chaplygina	USSR/Mining - Mineral Dressing, Flotation
	211m84	211784 gases is face of p and sodium s.	rtz, on after one that the air, nitrogen	Sci USSR,	21 Jan 52

CIA-RDP86-00513R0013412000

PLAKSIN, I. N.

USSR/Mining - Mineral Dressing

1 Jan 52

Sci USSR, V. A. Glembotskiy, Inst of Mining, Acad Sci USSR "Combined Action of Several Collectors in the Flotation Process," I. N. Plaksin, Corr Mem, Acad

"Dok Ak Nauk SSSR" Vol 82, No 1, pp 139-141

Discusses results of expts for using mixts of than any xanthate used separately. Phenomenon is these mixts proved to be more efficient collectors potassium ethyl and isoamyl xanthates as collecting agents in flotation of galenite. States that

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CA 47 no. 21: 11097 (3)

ore coarseness on floatability.

respect to other agent.

lector may be combined with increased activity in pacity of mineral surface in respect to one col-Therefore, article notes decreased adsorptive casep parts of surface toward various reagents. explained by difference in activity degrees of

Also discusses effect of

230T48

E. 24/1-27100 MANSHI, I.M. Aug 48 USSR/Metals Mining Methods "Changes in the Wetting of Metals and Sulfide Minerals Caused by the Action of Various Gases," I. N. Plaksin, Corr Mem, Acad Sci USSR, S. V. Bessonov, Mining Inst, Acad Sci USSR, 4 pp "Dok Ak Nauk SSSR" Vol LXI, No 5 Subject investigation showed oxygen's selective action on the surface of the minerals. 24/497100

PLAKSIN, I. N. PA 77T86 USSR/Metals Flotation May 1948 Gold "The Problem of the Effect of Adsorption and the Chemical Action of Oxygen on the Flotation Properties of Gold, Silver and Copper Surfaces," I. N. Plaksin, Corr Mem, Acad Sci USSR; S. V. Bessonov, Inst of Mining, Acad Sci USSR, 3 pp "Dok Ak Nauk SSSR" Vol LX, No 4 Discusses results of experiments on above subject. Readings are tabulated and plotted, showing boundary angle of wetting against time of contact with water for each metal. Submitted 9 Mar 1948. 77186

PLAKSIN, I. N.

USER/Minerals
Flotation
Pyrites

"Selective Protective Action of Thiocyanates during
Flotation of Pyrite and Arsenopyrite," I. N. Plaksin,
A. I. Sinel'nikova, K. A. Efremova, Mining Inst, Acad
Sci USER, 22 pp

"Dok Akad Nauk SSER, Nova Ser" Vol LIX, No 8

Describes experiments showing that diluted rodanide
produces protective action on pyrite, but that copper
ions must be added to arsenopyrite to obtain same result.

47752

1. PLAKSIN, I. N., Acad. 2. USSR (600) Flotation 7. Problems of research in flotation agents and the investigation of their reaction with minerals. Vest. AN SSSR 22, no. 8, 1952. 9. Monthly List of Russian Accessions, Library of Congress, January, 1953, Unclassified.

PLAKSIN, I. W.

PA 248T89

USSR/Minerals - Flotation, Reagents

Sep 52

"Effect of Gases on the Flotation of Nonsulfidic Minerals," I. N. Flaksin, Corr Mb Acad Sci USSR;

Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 9, pp 1353-

Investigates effects of air and oxygen of floatability of phosphate, quartz, calcite and fluorite Concludes that investigated gases may be used in flotation of phosphate and fluorite ores as reagents intensifying extraction of these minerals into froth and promoting better selective sepn of 248189

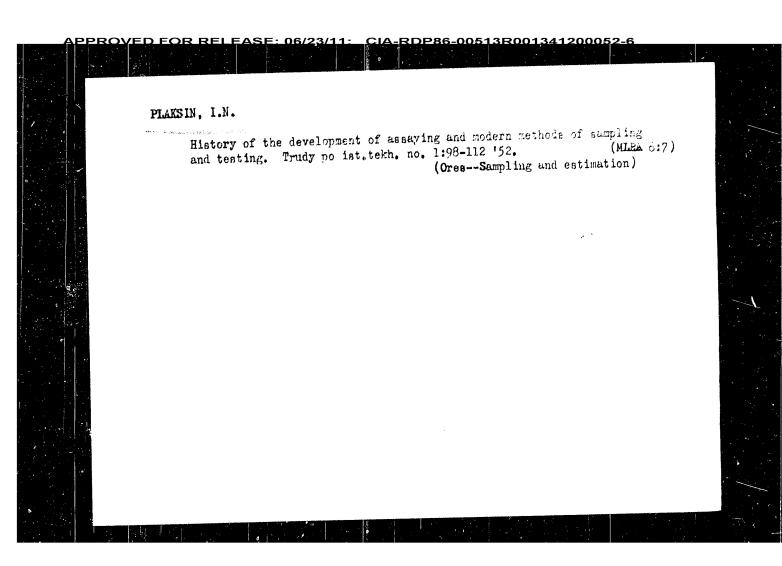
PEROVED FOR RELEASE PLAKEIN, I. N.	extraction, 91.4%, ves attained in case of using mixture of diethyl dithiophosphate with amyl xe	Analyzes data obtained in flotation of pyrite with ethyl and anyl xanthates, diethyl dithiophosphate, and with mixtures of these collectors, establishing joint use of two or more collectors. Highest	USSR/Engineering - Minerals, Dressing "Joint Application of Several Collecting Age Intensification of Pyrite Flotation," I. N. Corr Mem Acad Sci USSR, V. A. Glembotskiy, A. Okolovich	
2141158	244TS8 sing xan-	405-415 ce with sphate, blishing s by	8 to 25	

USSR/Mining - Mineral Dressing Feb 52

"Seminar of the Mining Institute of the Academy of Sciences on Mineral Dressing," I. I. Kurenkov

"Iz Ak Nauk, Otdel Tekh Nauk" No 2, pp 323-326

Seminar has been functioning under supervision of I. N. Plaksin, Corr Mem, Acad Sci USSR, since 1947.
Brief review of activity for 1950 - 1951 is given, listing all scientific and tech reports delivered and discussed at sessions of seminar for that period.



PLAKSIN, I.N.; GLEMBOTSKIY, V.A.; OKOLOVICH, A.M. Simultaneous use of several collector reagents for the intensification of the flotation of pyrite. Izvest. Akad. Nauk S.S.S.R., Otdel. Tekh. Nauk 152, 405-15. (MLRA 5:7) (CA 47 no.22:12165 '53)

PLAKSIN, I.N., redaktor. [Concentration of nonmetallic minerals by flotation; transactions of the conference on the theory and practice of flotation, Moscow, October, 1950] Obogashchenie nemetallicheskikh poleznykh iskopaemykh metodom flotatsii; trudy soveshchaniia po teorii i praktike flotatsionnogo obogashcheniia, Moskva, oktiabri 1950 g. Moskva, (MLRA 7:3) Izd-vo Akademii nauk SSSR, 1952. 275 p. 1. Chlen-korrespondent Akademii nauk SSSR, 2. Akademiya nauk SSSR, (Flotation) Institut gornogo dela.

PLAKSIN, I. N. 184716 fixation of kanthate on surface of metal or USSR/Chemistry sodium butyl xanthate on platinum, which is in agreement with hypothesis advanced by I. N. Plaksin that action of oxygen is essential for Oxygen increases wettability of platinum, while argon, nitrogen, and carbon dioxide do not.

Prior contact of oxygen increases adsorption of "Dok Ak Nauk SSSR" Vol LXXVIII, No 5, pp 933-935 "Effect of Various Gases on the Wettability of USSR, S. I. Vladimirov, Moscow Inst of Nonferrous Metals and Gold imen; M. I. Kalinin USSR/Chemistry - Platinum, Flotation · Platinum (Contd) Flotation 97.14BT ll Jun 51 11 Jun 51 9TITH81

PPROVED FOR RELEASE: 06/23/11 -RDP86-00513R001341200052-PLAKSIN, I. N. concentrates contg pyrite and arsenopyrite, and tion of ammonium salts for selective flotation of have no effect on arsenopyrite. Studies applicaof pyrite, sphalerite, pyrrhotite and galenite and Establishes that ammonium salts promote flotation "Iz Ak Mauk SSSR, Otdel Tekh Nauk" No 7, pp 1046-1064 "Protective Action of Ammonium Salts During Flotation of Pyrite, Arsenpyrite and Other Sulfide Minerals in Lime Medium," I. N. Plaksin, Corr Mem, Acad Sci USSR, G. A. Myasnikova USSR/Mining neutral medium have no effect on flotation of pyrite and arsenopyrite. Submitted 4 Nov 50. ability of same minerals. USSR Mining - Mineral Dressing, Flotation (Contd) establishes difference in effect of lime on flot-(CA +7 no. 22:12164 (3) Mineral Dressing, Flotation Ammonium salts in 205/192 JAI 51 205192 Jul 51

USSR/Metals - Gold, Extraction

(Contd)

1

. Feb 51

1851785

FLAESIN, I. H.

USSR/Metals - Gold, Extraction

1415

Feb 51

"Oxidation-Reduction Processes During Cementation of Metals From Cyanide Solutions," I. N. Plaksin, Corr Mem, Acad Sci USSR, O. K. Budnikova, Moscow Inst Nonferrous Metals and Gold imeni M. I. Kalinin

"Iz Ak Nauk, Otdel Tekh Nauk," No 2, pp 267-272

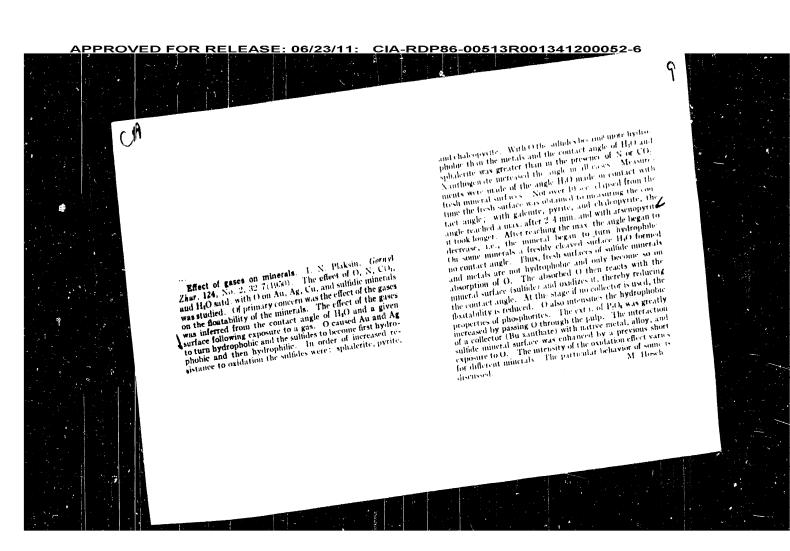
cording to authors, was unknown to previous investigators and was not considered in industrial prachamper and even improves process. Expts for pptn of gold with metallic zinc showed small ant of dissolved oxygen (to 1 mg/1) does not Amts of oxygen in soln over 1 mg/1 have This factor, ac-

155755

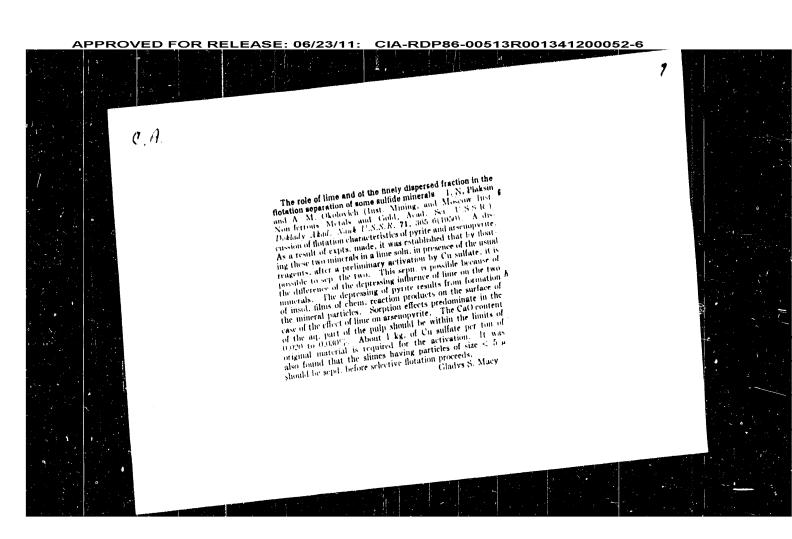
solved and oxidized zinc, causing unproductive condetrimental effect on pptn by increasing amt of dis-

sumption of ppt.

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FL 165T37 PLAKSIN, I. H. 1 May 50 USSR/Mining - Flotation Pyrites "Protective Action of Ammonium Compounds in the Flotation Separating of Pyrite and Arsenopyrite," I. N. Plaksin, S. A. Myasnikova, Mining Inst, Acad Sci USSR "Dok Ak Nauk SSSR" Vol LXXII, No 1, pp 97-101 Tested three types of ammonium salts in flotation process. Used potassium ethyl xanthogenate as collector. Obtained best results for extracting arsenopyrite by using ammonium chloride. Clarified relations between lime and ammonium salts. Ammonium compounds prevent formation of lime film on surface of pyrite but have no such effect on arsenopyrite. 165737



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PLAKSIN, I. N.

168758

USSR/Mining - Ores, Beneficiation

Aug 50

"Devices for Concentration of Minerals by the Flotation-Granulation Method," I. N. Plaksin, Corr Mem Acad Sci USSR, I. I. Kurenkov, Inst of Mining, Acad Sci USSR

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 8, pp 1189-1197

Developed method and devices based on combination of gravity and flotation principles of mineral separation. Designed special concentration table. Air is fed from operational side of table surface. Established that preliminary processing of ores by contact, in form of aqueous pulp, with oxygen or air is considerably improved method.

168758

"Influence of the Granulometric Characteristic on Floatability of Zinc Blende," I. N. Plaksin, G. N. Khazhinskaya, T. F. Brovkina, Inst of Mining, Acad USSR/Engineering on flotation of activated zinc blende, but considerably increases extraction into foam product of zinc blende crushed zinc-pyritic ore. Experiments have been conducted for flotation of firely "Iz Ak Nauk SSSR, Otdel Tekh Nauk" USSR, 45 pp fineness from -100 to -200 mesh has very slight effect USSR/Engineering size decrease did not show any significant improvement which is not activated with copper sulfate. processing of very fine ore and even contributes to its flotation. lime does not supress zinc blende during flotation of floatability. Experiments also demonstrated that 158741 PLAKSIN, I. N. Ore Dressing Flotation Ore Dressing (Contd) Modification of mineral 쳥 Further MAIT Mar 50 1500141 TABLE T CHANGE (i) Ų Ö

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PLAKSIN, I. I.

158169

USSR/Metals - Ore Dressing .

Feb 50

"Determination of the Coarseness of Dispersed Minerals During a Study of the Influence of Composition and Structure of Ores Upon Their Ability To Be Concentrated," I. I. Plaksin, Corr Mem, Acad Sci USSR, S. K. Shabarin, Inst of Mining Affairs, Acad Sci USSR, 5 pp

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 2

Distribution of number of grains in ores versus their coarseness and weight can be employed to evaluate ability of ores to be concentrated, as shown for the case of gold ores. Submitted 26 Sep 49.

158169

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| Residement of useful minerals by flotation granulation | 1- N. P. Basin and 1- 1. Kurcinkor | Farel - Had - Analy 3-3, 3-4, 0. Mole | Fab. Analy 150, 180 97; C. C. 1. 4

| Comparison of the Comparison of the State | Comparison of the state

PLAKSIN, I.N. Role of gases and chemical interaction with reagents in flotation processes. Trudy Soveshchaniya Teorii Flotatsion. Obogashcheniya,
Moscow *48. Rol* Gazov i Reagentov v Protsessakh Flotatsii *50,
p. 32-56. (MLRA 3:11)
(CA 47 no.13:6319 *53) APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200052-6

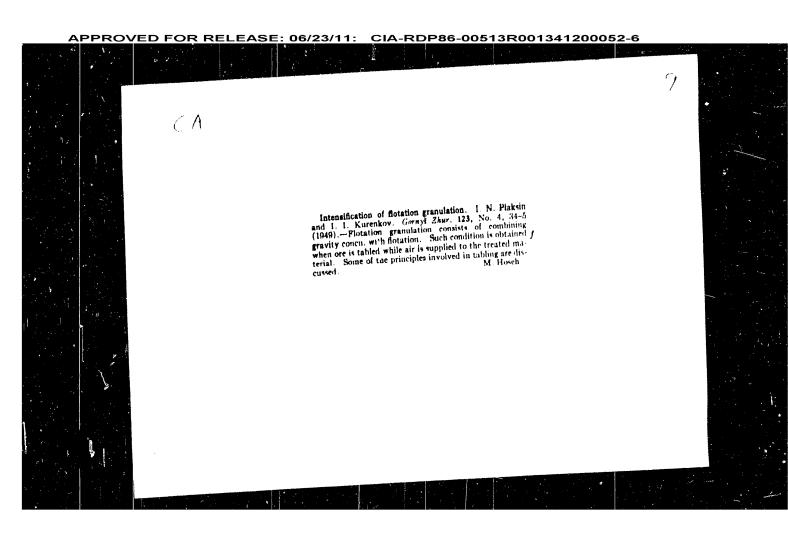
PLASKIN, I. N.

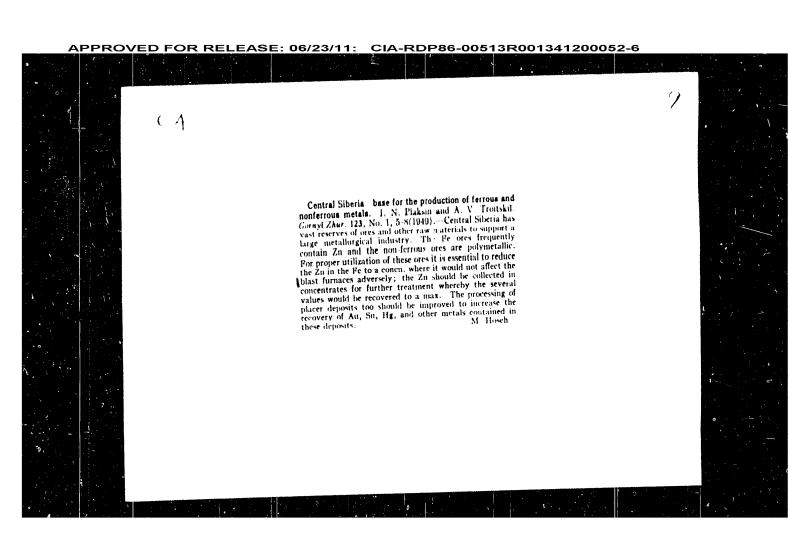
12 to 15 May 1948, Norcow, First conference has held on history of Saviet chemistry, convened by Commission on the Mistory of Chremistry, Acad Sci USSR. Meny papers were presented by (optensibly) newhers at this Commission.

"Role of Mussian Chemists in Establishing Scientific Research the Labelian Lindustry (XVIII to XIX centuries)." (Mining Inst, Acad Sci UCCR)

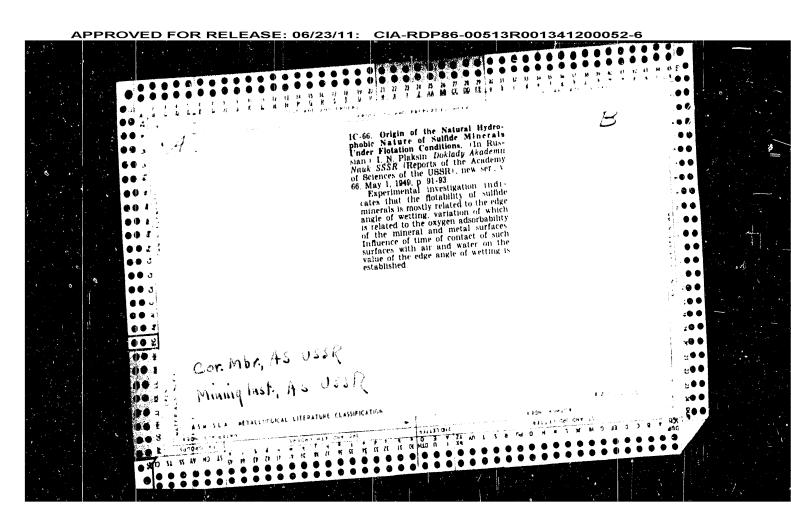
Materials on the History of Soviet Charderf Science, n published by And Science in Scoon-Loningred 1990.

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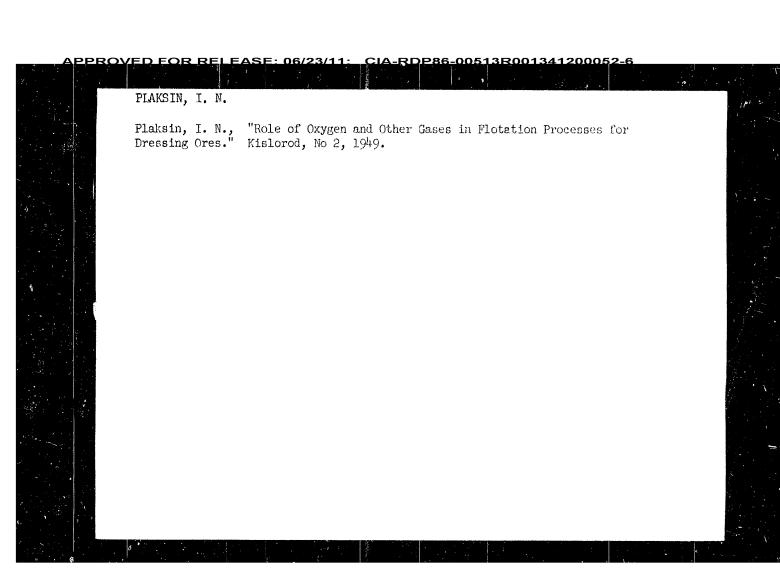




Rifert of piece on the floation of phosphorite ores. I. N. Pikkon and F. M. Indian Askay. Dublishy Abril. John M. N. D. M. Dubling Askay. Dublishy Abril. John M. D. M. Dubling Askay. Dublishy Abril. John M. D. M. Dubling Askay. Dublishy Abril. John M. D. M. D. M. Dubling Askay. Dublishy Abril. John M. D. M. D.



PLAKSIN, I. N. Plaksin, I. N., and Bessonov, S. V., "Action of a Film of Kanthate on the Solubility of Gold and its Alloys in a Cyanide Solvent." Isvetnyye Metally, No 4, 1949.



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200052-6 Influence of the natural composition and structure of zinc blendes on their floatability. I. N. Plaksin, G. N. Khazhinskaya, and T. F. Brovkina. Izvest, Akad. Nank U.S.S.R., Old. Tekh. Nauk 1949, 1361-4. In a previous report it was seen (cf. preceding abstr.) that in the case of flotation of zinc blendes there occurs a natural classification of them into those that are easily floated and those that are difficulty floated. The present report deals with the results of flotation tests made with zinc blend from 5 different deposits. The minerals to be tested were ground to -100 mesh (40.50%, -200 mesh). On the basis of the expisance it was concluded that O activates zinc blende, interacting with the Fe sulfide in it. Graphs are used to show made it was concluded that O activates zinc hender, meta-acting with the Fe sulfide in it. Graphs are used to show (1) mineral recovery is, length of time of oxygenation of a zinc blende to which CuSO, was added and (2) mineral recovery is, length of time of oxygenation without addit, of CuSO. A table gives the results of analyses of the zinc blendes for Zu, Cu, Fe, Pb, and insol. residue + silica. Gladys S. Macy

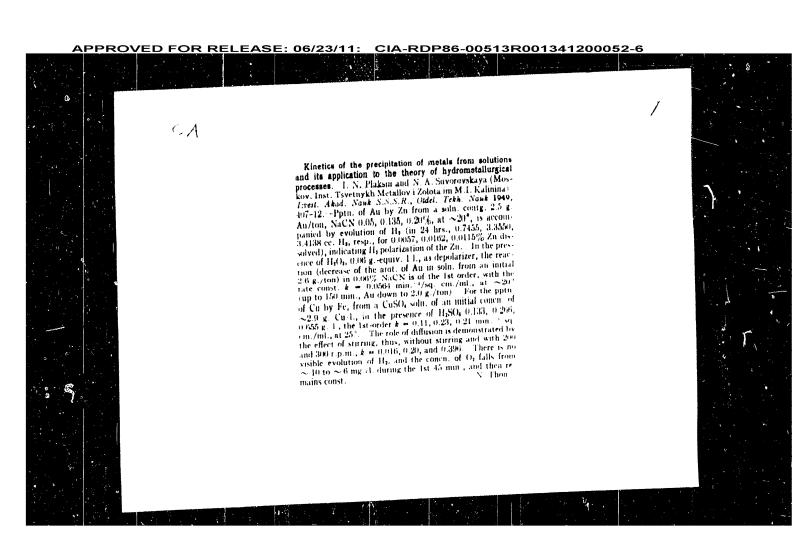
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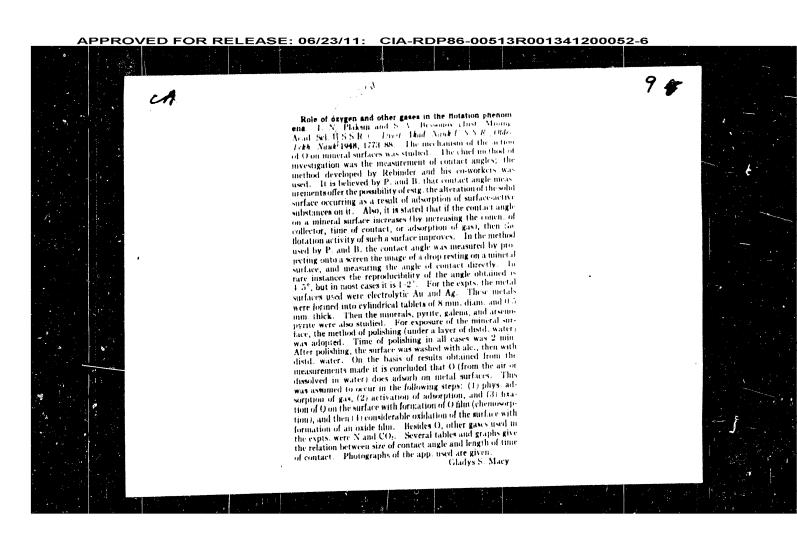
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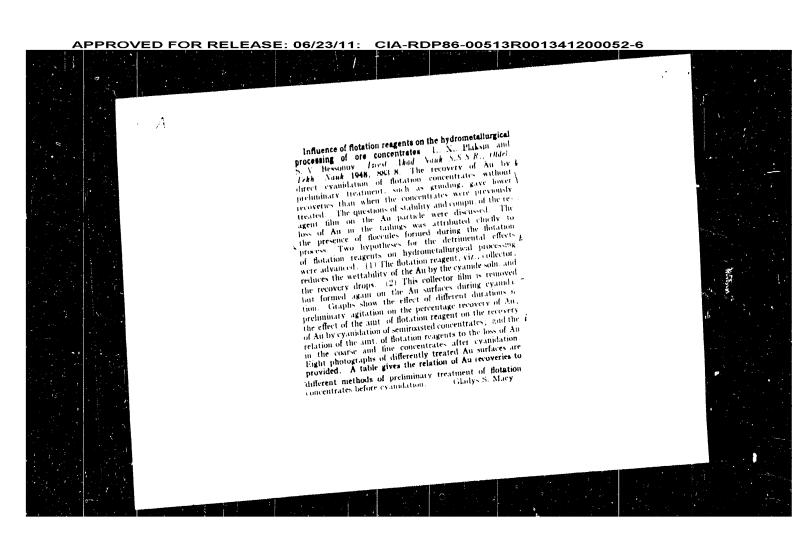
that with the collector was required for development of the max, contact angle (60%). However, after prehimously action of air on the nuneral surface for 2 hrs, and subsequent contact of nuneral with collector for 1 hr, the contact angle increased to 68%. Next the effect of the individual gases composing air was studied. For this expt a special cell was composing air was studied. For this expt a special cell was composing air was studied. For this expt a special cell was composing air was studied. For this expt a special cell was composing air was studied. For this expt a special cell was composing air was studied. For this expt a special cell was composing air was removed by filter paper, and the cell hermetically seafed. Then the gas to be used was allowed to 60w into the cell. After a definite time of contact with the gas the contact right was again measured. Now flot, that tests were carried out with phosphorite out of two classifications, 65–100 mesh and 100–150 mesh. In each case, 250 g, of one was used for the test. Reagents used for all the tests were: (1) 2 kg, too of soda, (2) 2 kg, too of carboxylic acids, and (3) 8 kg, too of soda, (2) 2 kg, too of carboxylic acids, and (3) 8 kg, too of keasure. The grade of contact and the report, as are graphs showing the relation between size of contact angle and the length of period of contact of miner of suffice with collector.

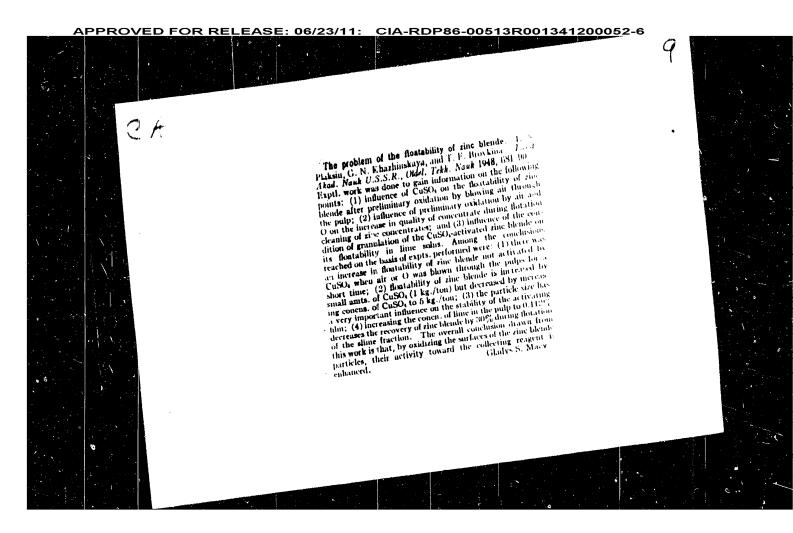
Depression of systic and assenopyrite in floation in an abalian medium. I. N. Plaksin and A. M. Okolovah. 1993. 2007. A bad. Nank S.N.N. (16th. 1788. New 1995. 2007. A virgar of a static connections the inflation of control seed. It was established that the inflation and S. M. In the floation of pyrite and assenopyrite in man and S. M. In the floation of pyrite and assenopyrite in man and S. M. In the floation of pyrite and assenopyrite in man and S. M. In the floation of pyrite and assenopyrite in man and so that the control of the state of t

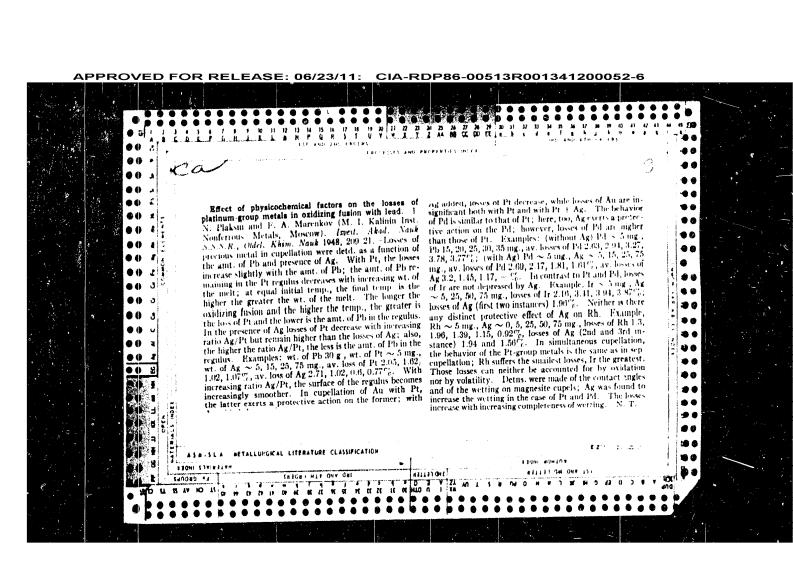


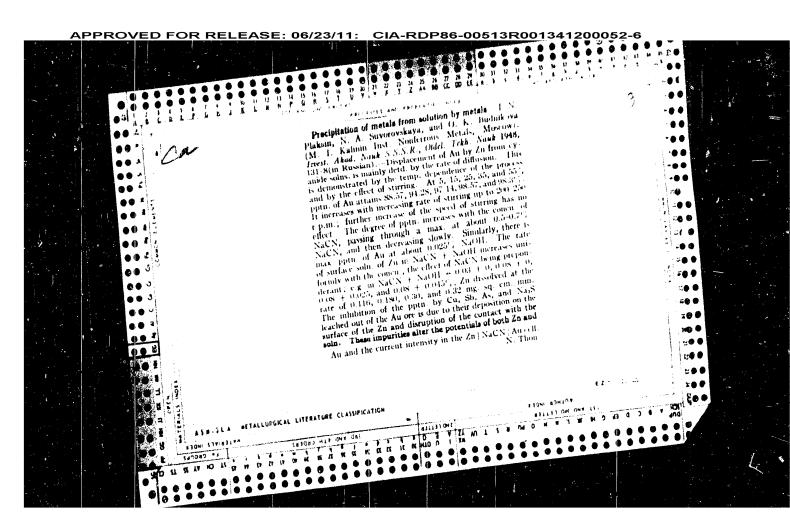
PHAKSIE, Igor! Nikolaevich, 1999-Hydrometellurgy; a textbook Moskie, J.C. gascon-teknn. Loc-vo lid-ny po-chernoi i tenetnoi metallurgii, 1940. 772 (. (50-28))6. anistr TH688. P55 1. Hydrometallurgy. L. Loketner, con-











PA40T69 USSR/Metallurgy Ore Dressing Oxide Layers Process of Dressing and Hydrometallurgical Processing of Ore," I. N. Plaksin, Corresponding Member, Academy "Origization and Reduction of Mineral Surfaces during "Izw Akad Nauk SSSE, Otdel Tekh Nauk" of Schences of USSR, 10 pp of caridization and reduction of the surfaces of na-tive ores on amalgamation, effect of oxidization of terrelationship between minerals and reagents, effect Discusses various aspects of subject. PLAKSIN, 1. N gulfide minerals on flotation, oxidization of native processes. metals and sulfide minerals in hydrometallurgical USSR/Metallursy entigts who have been involved with the various tain some information in regard to some of the soiprocesses mentioned. Article is very general, but does con-(Contd) No 10 Explains in-Oct 1947 Oct 1947 **6910**

PPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200052-6

PLAKSIN, I. N.

PA 97102

USSR/Flotation Minerals

Apr 1947

"The Effect of Oxidation on Floatability and Segregation of Sulfide Minerals," I. N. Plaksin, A. I. Sinelnikova, G. N. Khazhinskaya, 14 pp

"Izv Ak Nauk Tekh Nauk" No 4

The influence of weakly-acid and neutral mediums (pH<7). Chemical changes of composition in the surface of the minerals, proceeding from the action of oxidation. Influence of hydrogen on the medium and structure of crystalline lattices of sulfide minerals. Tables and graphs showing relationships of the various factors.

97102

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PLAKSTN, I. N.

PA 16T104

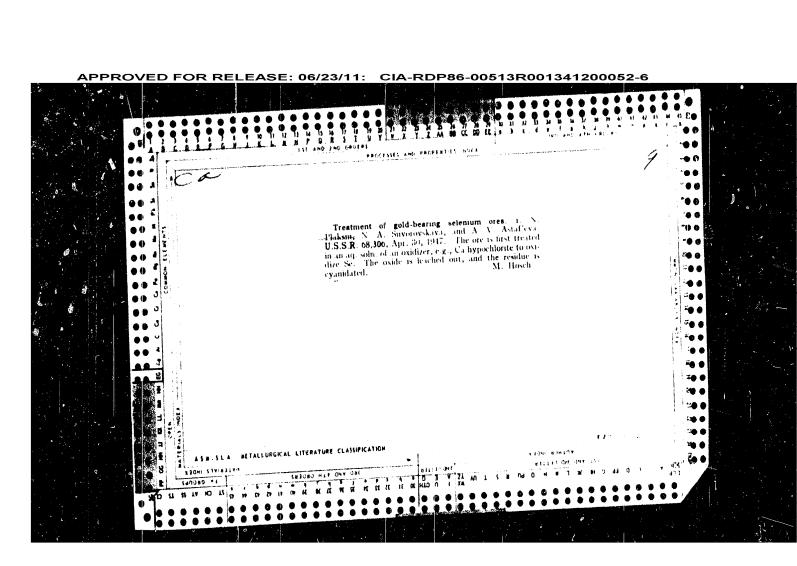
USSR/Flotation Sulfides May/Jun 1947

"Oxidation in Alkalis by Selective Flotation of Sulphide Ore," I. N. Plaksin, A. I. Sinel'nikova, G. N. Khazhinskaya, Mining Institute, Academy of Sciences, USSR, 5 pp

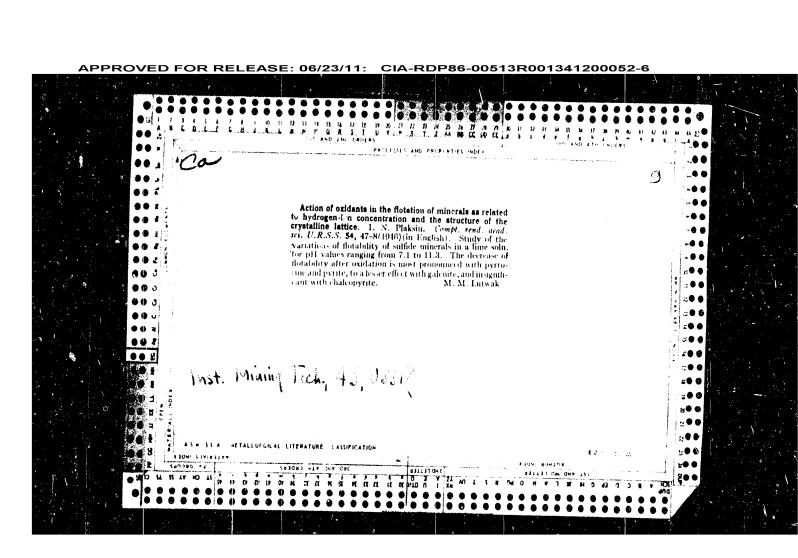
"Tavetnyye Metally" No 3

Discusses the processes with following conclusions: (1) Preliminary scration or exidation of pulp prior to flotation results in increase of selectivity during flotation of copper pyrite ore. (2) Use of acration or blowing through of acids makes it possible to determine the quality of Zn or Cu concentrate during the purifying flotation.

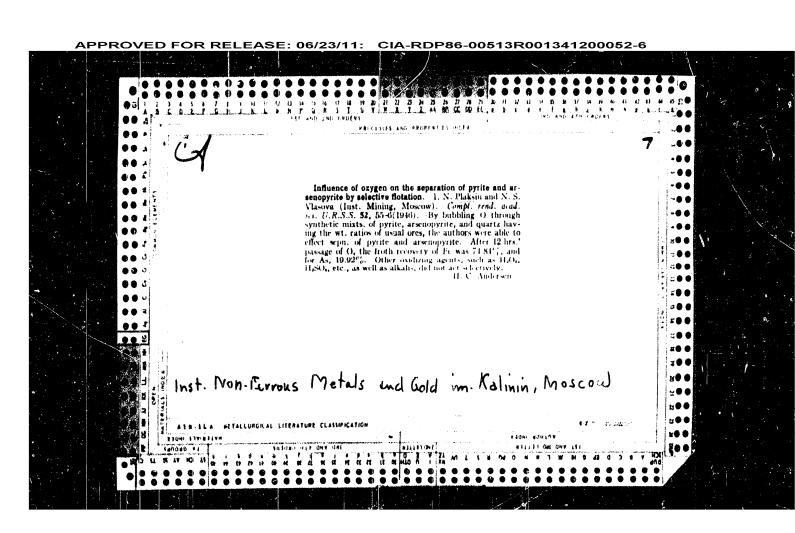
The Effect of Grain-Size Distribution on the Flotability of Sulfide Minerals. (In Russian) I. N. Plaskin and G. N. Khashinakia. Bulletin of the Academy of Sciences of the USAR, Section of Technical Sciences, June 1941, p. 137-305. Revalue of a multiple of minerals (galena, calacted of pyrite, chalcoline, and pyrite) under the influence of depressors, activators, and oxidizers are chartred and discussed. 11 ref.

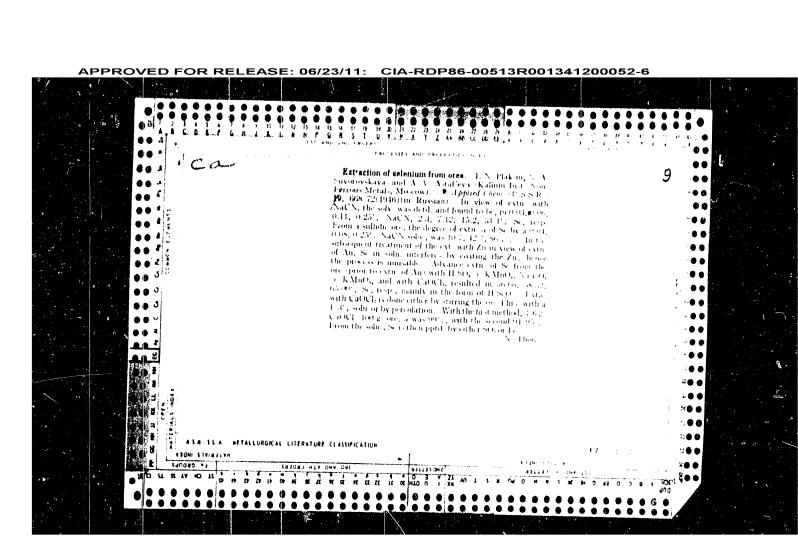


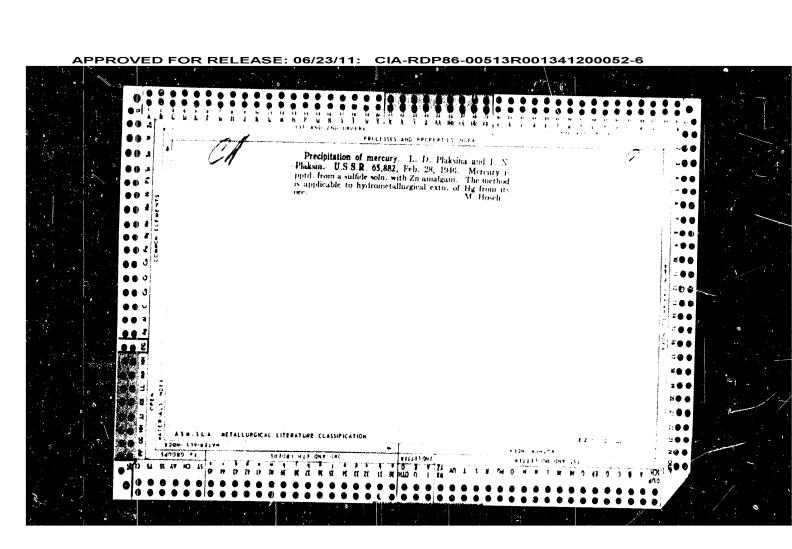
CLAKSIA, Igor! Nikolaevich, 1900-Metallurgical sampling and assaying analysis. Acesta. Cos. nauch.-texta. ize-vo no mermoi i tavetnoi metallurgii, 1747. 267 p. (47-14-77) 165,0..55

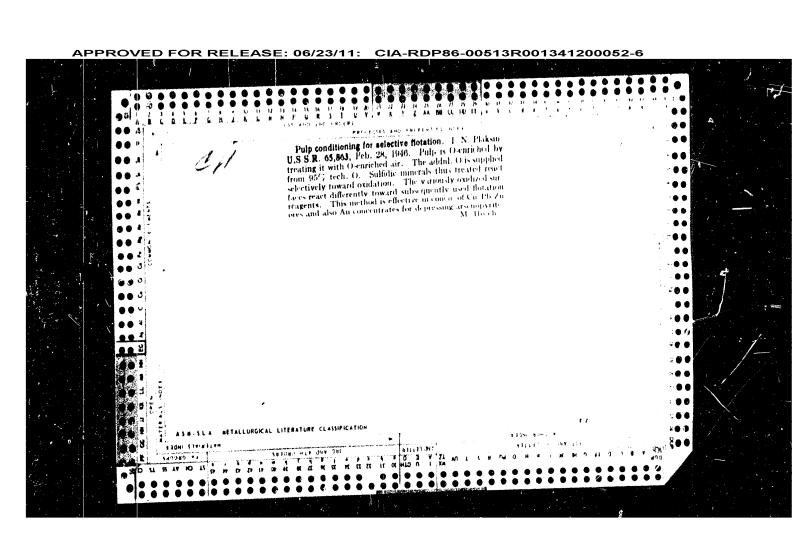


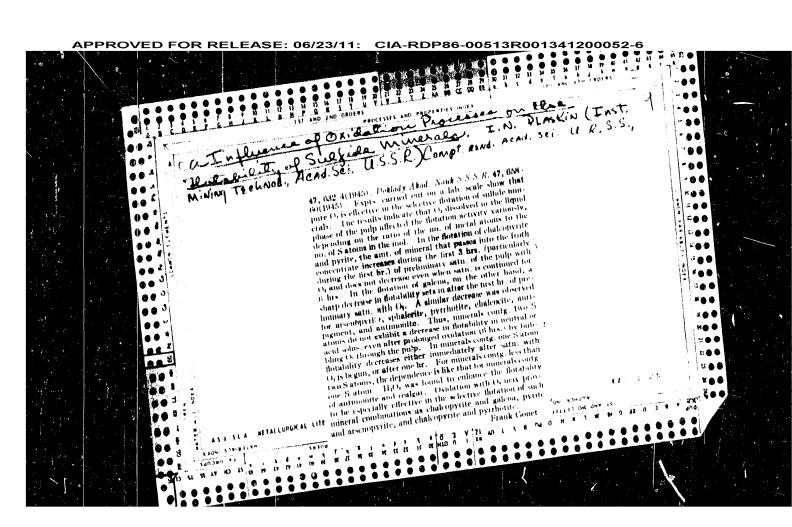
The effect of outdring the surface of earlies magnetic with sorgies on the velocity of floation, with a collector. I. N. Plakes, A. I. Suddhuber, and A. S. Hencerts. Conft. and. vo. I. R. S. S. S. did in the grant of the collector. I. N. Plakes, A. I. Suddhuber, and A. S. Hencerts. Conft. and. vo. I. R. S. S. did in the grant of the collector. I. D. S. de House, C. House, H. H. B. did in the grant of the collector. I. D. S. de House, C. House, H. H. B. did in the grant of the collector. I. D. S. de House, C. House, H. H. B. did in the grant of the collector. I. D. S. de House, C. House, H. B. did in the collector of the collector. I. D. S. de House, H. B. did between the collector of the collector of the collector. In the collector of the collector of the collector of the collector. In the collector of the collector of the collector of the collector. In the collector of the collector of the collector of the collector. In the collector of the collector of the collector of the collector. In the collector of the collector of the collector of the collector. In the collector of the collector of the collector of the collector. In the collector of the collector of the collector of the collector. In the collector of the collector of the collector of the collector. In the collector of the collector of the collector of the collector. In the collector of the collector of the collector of the collector. In the collector of the collector of the collector of the collector. In the collector of the collector of the collector of the collector. In the collector of the collector of the collector of the collector. In the collector of the collector of the collector of the collector. In the collector of the collector of the collector of the collector. In the collector of the collector of the collector of the collector. In the collector of the collector of the collector of the collector. In the collector of the collector. In the collector

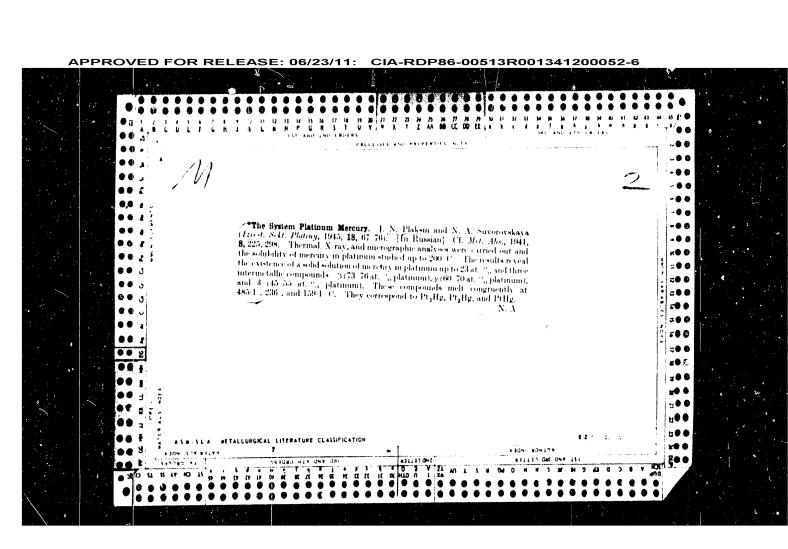




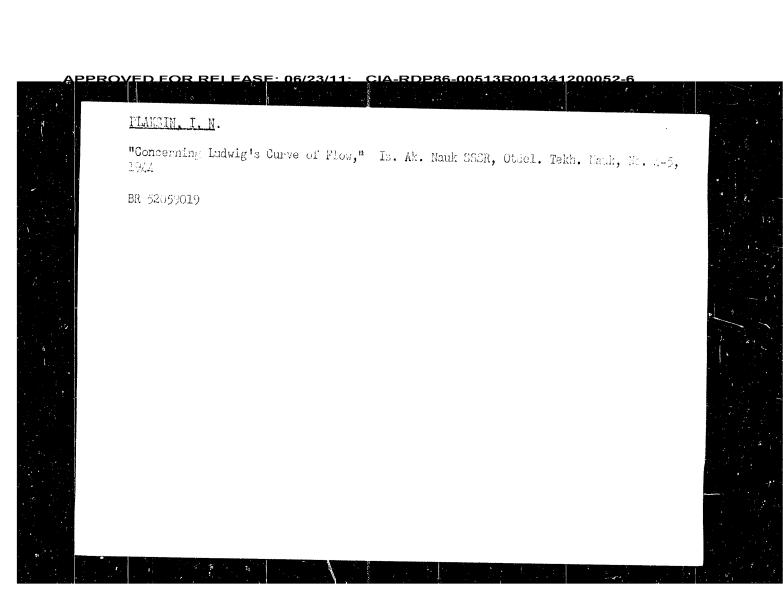








Philip, L. L. . This medical arrests we result in the extension of $\{1,1,2,3,\dots,n\}$ for an arrest $1,\dots,n$. Since $\{1,2,\dots,n\}$ for Sept. And laterial a staining Au, Au, or eller made in the following the day of the state of the state and the appropriate for the first problem of the control of the control of the motal, partly into the scale and cartly into the configuration of the policy of the mixt. It then added note in madern. This mesons has become a the specific to the embirely into the andrar.

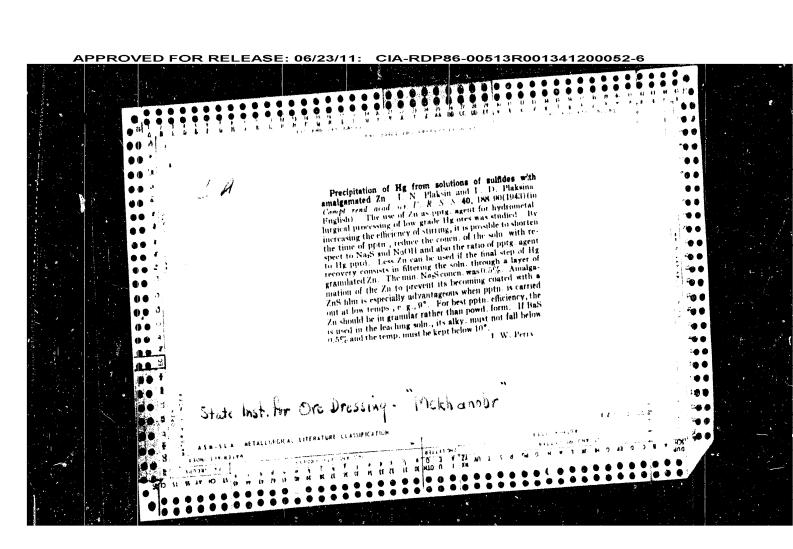


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Extraction of Pd and Pt from oxidized ores by chlorination. I. N. Plaksin and S. K. Shabarin. Buil, acad. within I. N. Plaksin and S. K. Shabarin. Buil, acad. within I. N. Plaksin and S. K. Shabarin. Buil, acad. within I. N. Plaksin and S. K. Shabarin. Buil, acad. within I. N. Plaksin and S. K. Shabarin. Buil, acad. within I. N. Plaksin and S. K. Shabarin. Buil, acad. within I. N. Plaksin and S. K. Shabarin. Buil, acad. within I. N. Plaksin and S. W. Shabarin. Buil, acad. within I. N. Plaksin and S. W. Sangles of and extra of the chloridate of the chloridate of the samples of approximate contig. chalcopyrite and penthandite. The oxidited one consisted chiefly of limonite, mainly of approximate one these orespartly in the bound state and partity on the firey, michy dispersed state. Chloridation was effected in a tubular clee, turnace (220 v. 14 amp). Three Torg. samples of ore and 1.2 g. of NaCl were placed smultaneously in the furnace in thin layers in placed smultaneously in the furnace in thin layers in placed smultaneously in the furnace in thin layers in placed smultaneously in the furnace in thin layers in placed smultaneously in the furnace in thin layers in placed smultaneously in the furnace and it could endure higher temps of chloridation. The sulfide one was chloridated at 100 5,000 200 30, and \$50 500. At 100 500 in Pt metals acre extil. At 200 500 Pt metals acre extil. At 200 500 Pt began to be chloridated and it could be extil in small quantities. At 300 500 the extil of Pd was complete. Practicully in Pt was extil. at the could be extil in small quantities. At 300 500 the extil of Pd was complete. Practicully in Pt was extil. At 300 500 60 78, at 400 200 60, at 370 480 73 8 and 400 200 60, at 370 480 73 8 and 400 200 60, at 370 480 73 8 and 400 200 60, at 370 480 73 8 and 400 200 60, at 370 480 73 8 and 400 200 60, at 370 480 73 8 and 400 200 60, at 370 480 73 8 and 400 200 60, at 370 480 73 8 and 400 200 60, at 370 480 73 8 and 400 200 60, at 370 480 73 8 and 400 200 60, at 370 480 73 8 and 400 2

and Pd were completely extd. from mixts, of equal parts by wt. of the oxidized and sulfide ore by toasting them at 500-50° for 1 hrs. Chlormation of mixts, of oxidized ore 75 and sulfide ore 25° c and of oxidized ore 90 and sulfide ore 10° c at 400-50° extd, tesp. Pt 71.0° 75.5° and 41° 67° c; Pd 100° and both cases. Extn. with 2° aq. HCl with the addit of NaCl by agitating the mixt, domid solid > 0.11 for 3 hrs. by means of a glass mixt, (120 i.p.m.) yielded Pt 35-70 and Pd 30-50°. Pr in talk were extd. to the extent of 45°, from floation taling-contg. Pt 3.5, Pd 134; It 0.26°, and Au 0.3° g. fon by amalgamation. No Pt metals were extd. from these tall-1 mgs by the examile process. Various methods of solin, in HCl and aqua regia without roasting, and with a pre-liminary toasting, gave a may extn. of 65° 7°. Extn. was 85°, with Cl water at 20° for 16 hrs. Successive oxidation and chlormation toasting of floation tading at 200° gave a 85°, extn. Max extn. of the Pt metals of 3°, was obtained by toasting at approx. 200°, followed by his tand on the tall gr. with HCl. (18 St), (190° at 90° for 5 hrs. Max extn. was obtained with one ground to 0.5° min. (28 mesh).

MOSCOW Inst. Non-Terrous Metals and Gold im. M.I. Kolinin



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200052-6

Beet of mineralogical composition on conditions of recovery of noise media in entrainment of polymetallic ores. I. N. Plaksin. Hill. and us. I. K. X. A. Characteristic ores. I. N. Plaksin. Hill. and us. I. K. X. A. Characteristic ores. I. N. Plaksin. Hill. and us. I. K. X. A. Characteristic ores. I. N. Plaksin. Hill. and us. I. K. X. A. Characteristic ores. I. N. Plaksin. Hill. and us. I. K. X. A. Characteristic ores. I. N. Plaksin. Hill. and us. I. K. X. A. Characteristic ores. I. N. Plaksin. Hill. and us. I. K. X. A. Characteristic ores. I. N. Plaksin. Hill. and us. I. K. X. A. Characteristic ores. I. N. Plaksin. Hill. and us. I. K. X. A. Characteristic ores. I. N. Plaksin. Hill. and us. I. A. Characteristic ores. I. N. Plaksin. Hill. and

PLAKSIN, Igor' Nikolaevich, 1900the metallurgy of precious metals; a textbook. Moskve, for new h. teken. ind-vo lit-ry po chernoi i tsvetnoi metallurgii, 1244.420 p. (50-4987)04/5/1.155

